IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OKLAHOMA

W. A. DREW EDMONDSON, in his)
capacity as ATTORNEY GENERAL)
OF THE STATE OF OKLAHOMA and)
OKLAHOMA SECRETARY OF THE)
ENVIRONMENT C. MILES TOLBERT,)
in his capacity as the)
TRUSTEE FOR NATURAL RESOURCES)
FOR THE STATE OF OKLAHOMA,)

Plaintiff,)

Vs.)
4:05-CV-00329-TCK-SAJ
TYSON FOODS, INC., et al,)
Defendants.)

VOLUME II OF THE VIDEOTAPED
DEPOSITION OF ROGER OLSEN, PhD, produced as a
witness on behalf of the Defendants in the above
styled and numbered cause, taken on the 11th day of
September, 2008, in the City of Tulsa, County of
Tulsa, State of Oklahoma, before me, Lisa A.
Steinmeyer, a Certified Shorthand Reporter, duly
certified under and by virtue of the laws of the
State of Oklahoma.

TULSA FREELANCE REPORTERS 918-587-2878



1	that you've expressed in your expert report?	1	Q Okay. So tell me about these two other times,
2	A He had the expertise in the programs to run	2	Dr. Olsen, that you ran Sysstat yourself to compute
3	the statistical analysis. I worked with him and	3	principal component scores in other cases or
4	directed his work to actually do the statistical	4	projects.
5	analysis 08:33AM	5	A I'd have to go back and recollect. I know 08:36AM
6	Q Mr. Chappell actually ran the Sysstat software	6	that we were doing some statistical training. I
7	that computed the Principal Component 1 and 2 scores	7	think Rick and I were doing that training together
8	that you interpreted; is that right?	8	and we were kind of trading off who was doing some
9	A That's correct	9	of the runs and things, and I think that was - I
10	Q Okay, Did Mr. Chappell run all of the PCA 08:33AM	10	forget what data that was on. 08:36AM
11	analysis that you have referred to or consulted in	11	Q Who were you training?
12	connection with your work in this case?	12	A We did internal training and we did some
13	MR. PAGE: Object to the form.	13	training with several agencies. I think this was
14	A He did all the runs in this that are produced	14	for internal training.
15	and that were done for my expert report. 08:33AM	15	Q You did that with the assistance of Mr. 08:36AM
16	Q Okay. Did Mr. Chappell I'm sorry. Strike	16	Chappell; is that right?
17	that. Were there any prior runs that are not	17	A Yes, uh-huh
18	referenced in your report or subsequent runs of the	18	Q Is there any instance where you have run the
19	principal component analysis that you yourself	19	principal component analysis software, Sysstat,
20	completed? 08:34AM	20	yourself and computed scores prior to this case 08:36AM
21	A Yes. I did some last year.	21	without the assistance of Mr. Chappell?
22		22	A Well, yeah, I've done it with other people,
22 23	Q Okay. A It was we talked about in the preliminary	23	just not Dr. Chappell, but usually I consult with
	injunction hearing and, I mean, in the in my	24	someone to make sure that, you know, I'm running it
24		25	right and everything or checking their data or their 08:37AM
25	deposition at that time. 08:34AM		303
• • • • • • • • • • • • • • • • • • • •			
1 2	Q So if I understand correctly, Dr. Olsen, you were actually yourself running the Sysstat software	2	runs. Q Dr. Olsen, prior to your work in this case,
	computing principal component scores up until the	3	have you ever been qualified as an expert witness to
3	preliminary injunction, but since that time Rick	4	offer a source opinion based upon a principal
4	Chappel! has been running the principal compenent 08:34AM	5	component analysis? 08:37AM
5	analysis and computing the principal component	6	A I've been qualified many times to offer source
6	•	7	opinions. I'm trying to and we have used PC.
7	scores?	8	principal component, and other statistical analysis
8	A No. I'm sorry if I confused you You asked	9	in those source identifications. I don't think I've
9	me if I had done any, and I had done some few runs,	10	ever been asked that specific question related to 08:37AM
10	you know, just the mann a control of the second	11	statistics and PC. Usually I don't make it that
11	went ahead and did some runs, but Rick Chappell has	12	when they qualify you, they don't make it that, that
12	been doing by far, even associated with the	13	limited as, you know, an expert in this particular
13	preliminary injunction, most of the runs.	14	area. They usually say source identification by
14	Q Okay. Prior to your work in this case, Dr.	1	00.70414
15	Olsen, had you ever run Sysstat and computed 08:35AM	15	using statistical incurred, outer invariant, you are
16	principal component scores before?	16	I'm trying to think. The one we did in Midvale.
17	A Yes, and I directed other on occasions	17	
18	other people to do those for me.	18	
19	Q How many times have you run the software	19	00.704
20	yourself prior to this case? 08:35AM	20	Debarmon of segreet no most himsike, and a second
21	 A Oh, mostly I directed people. Probably just a 	21	•
22	couple other times that I actually did a few runs	22	
23	for PC1 and PC for principal component. I used	23	•
24	Sysstat a lot of other times over the years, but	24	· -
25	probably one or two other times. 08:35AM	25	
25	probably one or two other times. 08:35AM	25	of that qualifies you as an expert, and talked about 08:39A

3 (Pages 301 to 304)

TULSA FREELANCE REPORTERS 918-587-2878

1	those are used for or coefficient of determination	1	A No, but he's a check on what we did.
2	is.	2	Q Did you include anything in your expert report
3	Q Okay. Can you shed any light, Dr. Olsen, on	3	that is the work product or analysis of Mr. Loftis?
4	how a CD scatter plot would indicate that retaining	4	A No, I did not.
5	a certain number of principal components is 05:41PM	5	MR. GEORGE: I am through and will pass the 05:43PM
6	sufficient?	6	witness.
7	A No.	7	MR. PAGE: Since I'm the only one left
3	Q Dr. Olsen, Mr. Chappell suggested that you	ρ	MR. GEORGE: Anybody on the phone have a
9	consider applying this same approach to your	9	question or two? Do we have anyone left on the
10		10	phone? 05:44PM
11	principal component analysis for this case in his 05:41PM E-mail. Did you do that?	11	MR. PAGE: Well, since I'm the only one
ŀ	•	12	left, I have no cross examination at this time. So
12	MR. PAGE: Object to the form.	13	I'll just state for the Record that Dr. Olsen will
13	A He implied we should do it. He said I'm not	ŧ.	•
14	sure we want to go to this level, so he didn't	14	read and sign. MR_McDANIEL: Can I just make a statement. 05:44PM
15	specifically suggest that we do it. I'm also not 05:41PM	15	1.21 11.11.11
16	sure whether it's applicable to our purposes. Maybe	16	one statement for the Record that's not even
17	we want to discuss this with Jim.	17	necessary that it be on the deposition Record, but
13	Q Well, did you discuss it with Jim?	18	we've learned yesterday that there are persons who
19	A I think we did.	19	have authored parts of Dr. Olsen's report and, of
23	Q Okay. Did you implement this exercise? 05:41PM	20	course, we reserve the right to pursue those we have 05:44PM
21	A No. We decided it wasn't necessary based on	21	not deposed, but a couple of the people identified
22	our graphical production of the screen plots that we	22	we've already deposed, and it was not known to us at
23	added to our analysis.	23	the time of their depositions that they also
24	Q Dr. Olsen, did you or Mr. Chappell or anyone	24	authored part of this report so we certainly reserve
25	working for the State in connection with this 05:42PM	25	the right to recall those individuals to examine 05:45PM
	573		575
		}	
1	principal component analysis do anything to test or	1	them with regard to their authorship in this report.
2	evaluate whether or not your principal component	2	MR. PAGE: I don't have anything more to
3	analysis was reliably reproducing data?	3	say.
4	A Again, I don't know for sure how to do that	} 4	VIDEOGRAPHER: This concludes the
5	and exactly what Jim Loftis did in his evaluation of 05:42PM	5	deposition of Roger Olsen. We are now off the 05:45PM
6	it. I don't know if he did that or not.	6	Record. The time is 4:45 p.m 5:45 p.m.
7	Q Well, Dr. Olsen, you've referred to Jim	7	(Whereupon, the deposition was
8	Loftis. Who is Jim Loftis?	8	concluded at 5:45 p.m.)
9	A He's a professor at Colorado State University.	9	
10	Q Another consultant retained by the attorneys 05:42PM	10	
11	working for the State of Oklahoma?	11	
12	A That's correct	12	
13	Q Okay. Did Dr I'm sorry, did Jim Loftis	13	
14	send you any CD scatter plots that he had run on	14	
15	your principal component analysis? 05:43PM	15	
16	A No, he did not	16	
17	Q Did Mr. Loftis send you any analysis to the	17	
13	hest of your recollection that showed that your	18	
1.9	principal component analysis was reproducing the	19	
20	data to a high degree? 05:43PM	20	
21	A No. We had verbal discussions on his	21	
22	evaluation of our PCA analysis.	22	
23	·	23	
24	Q Well, are you relying upon Mr. Loftis to support the accuracy and reliability of your	24	
25	• • • •	25	
25		1	576
1	574	{	576

71 (Pages 573 to 576)

TULSA FREELANCE REPORTERS 918-587-2878